ABSTRACT

Methods, systems, and articles of manufacture consistent with the present invention coordinate distribution of shared memory to threads of control executing in a program by using a cooperative synchronization protocol. The protocol serializes access to memory by competing threads requesting assignment of memory space, while allowing competing threads that have already been assigned memory space, to share access to the memory. A designated area of memory assigns the memory to requesting threads. The protocol is an application level entity and therefore does access the operating system to serialize the memory allocation process.

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